

CLAIMS

IN THE CLAIMS:

1. A process for fabricating fibrous monolith composites comprising:

combining a first powder with a thermoplastic polymer binder and a thermoplastic

5 plasticizer to create a uniformly suspended composition,

combining a second powder with a thermoplastic polymer binder and a

thermoplastic plasticizer to create a uniformly suspended second composition,

warm pressing the first and second uniformly suspended compositions to create a
feed rod having a first portion of the first composition surrounded by a second portion of the
10 second composition; and

extruding the feed rod through a deposition nozzle onto a mechanically-controlled
surface to create a fibrous monolith composite.

2. The process of Claim 1 wherein the first and second powders are selected from
the group consisting of metal, metal alloy, carbide, nitride, boride, oxide, phosphate and
15 silicide.